Recreational Use Attainability Analysis

Cover Sheet

| Water Body Name: Elkhorn Crllk |
|---|
| Water Body Identification #: 287 |
| Completed UAA Checklist: Pre-Field Preparatory Data Sheet Maps with actual survey sites marked Data Sheet A Data Sheet B – 3 of 3 pages for each site Number of Sites: Data Sheet C (if applicable) Number of Interviews: NA Photographs Quantities Upstream Downstream Other Other |
| I, the undersigned, hereby affirm to the best of my knowledge, that all information reported in this UAA is true and accurate. |
| Signed: Date: $06/26/2006$ Printed Name: $Coun Hicc$ Telephone #: $(410)356-8993$ Organization: $TltraTlchINC$ Position: $SciEn7157$ |

<u>Pre-Field Preparatory Data Sheet</u> <u>for Recreational Use Stream Surveys</u>

| Water Body Name: EIKhorn (from USGS 7.5' quad) | CrelK |
|--|--|
| 8-digit HUC: 10240010 | Missouri Water Body Identification (WBID) #: 287 |
| County: Noclaway | |
| Upstream Legal Description: 40, 2685 | 58,-95,01008 |
| Downstream Legal Description: 40, 194 | 552 - 95. 03202 |
| Discharger Facility Name(s): Grand | im WWTF |
| Discharger Permit Number(s): N/A | |
| Weather Conditions for Past 7 days: | ot, sunny, cloudy, rainy, humid |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest.

Date: <u>06/26/2006</u>

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

Water Body Name: Elkhorn Creek

WBID #: 287

Upstream Coordinates:
(WGS 84, ddd.ddddd) 40. 26790, 95.01263

Downstream Coordinates:
(WGS 84, ddd.ddddd) 40.17887, 95.05031

Current Weather Conditions: Sunny, Warm

Number of Sites Evaluated: 6

Name(s) of Surveyor(s): Colin Hill, Caroling Gallardo

WBID# 287 Site# 776

Date: 06/ 26 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization - 1 of 3

(A separate Data Sheet B must be completed for each site)

| V | <u></u> | | | wast of completed | rior cacir site) | |
|--|-------------------------------|--|-----------------|---------------------------------|-----------------------------|-----------------------------|
| ;\ S | Latitude (ddd.dddd): 4 | 0.17887 | | | Arrival Time: | |
| 2 | Longitude (ddd.dddd): | 95.05031 | | | 1105 | |
| | Photo Ids: Upstream: | ······································ | Oown | stream: | Other: | |
| | 0209 | | | 0210 | 021 | 0212 |
| Na | arrative Description | of Location: (De | scribe | e access point to stream, nea | arby roads landmarks etc.) | |
| Narrative Description of Location: (Describe access point to stream, nearby roads, landmarks, etc.) of Eagle RD bridge Crossing | | | | | | |
| Su iter | rrounding Condition | 18*: (Mark all that p | oromo | ote or impede recreational u | ses. Attach photos of evide | nce or unusual |
| | ☐ City/county parks | ☐ Playgrounds | | MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| | ☐ Boating accesses | ☐ State parks | 1 | National forests | ☐ Nature trails | ☐ Stairs/walkway |
| | ☐ No trespass sign | ☐ Fence | | □ Steep slopes □ Other: No. All | | ds/0212) |
| Hu | ıman Uses Observed | *• | | | | |
| | ☐ Swimming | ☐ Skin diving | | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| | ☐ Wind surfing | ☐ Kayaking | | ☐ Boating | ☐ Wading | ☐ Rafting |
| | ☐ Hunting | ☐ Trapping | | ☐ Fishing | None of the above | ☐ Other: |
| | Describe. (ilicitide numbo | er of individuals reci | eatin | g, frequency of use, photo-o | locumentation of evidence | of recreational uses, etc.) |
| Evi | dence of Human Use | *: | | | | |
| - | ☐ Roads | ☐ Foot paths/prin | s | ☐ Dock/platform | ☐ Livestock Watering | ☐ RV / ATV Tracks |
| | ☐ Rope swings ☐ Camping Sites | | ☐ Fire pit/ring | ☐ NPDES Discharge | ☐ Fishing Tackle | |
| | XOther: Trash | instraam | 10 | 7271) | | , |
| Sou | rces of Pollution: (e.g | g., trash dumping, tir | es, dr | ainages, discharges, etc.) | | |
| | Trash d | | | | | |
| | | | | | | |

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| WBID # 287 | Site # | 776 |
|-------------------|--------|----------|
| Date: 06/26 | | _ |
| | | Data She |

Data Sheet B - Site Characterization – 2 of 3

Stream Morphology:

Upstream View Physical Dimensions:

Distance from access point (m)

Width (m)

Length (m)

Avg. Depth (m)

Max Depth (m)

 □ Riffle
 □ Run

 □ Run
 5

 ▼Pool
 5

 Flow
 Present?

 ▼Yes
 □ No

 Velocity (ft/sec):
 0.25

 0.5

Downstream View Physical Dimensions:

| | Distance from access point (m) | Width (m) | Length (m) | Avg. Depth (m) | Max Depth (m) |
|----------|--------------------------------|-----------|--------------------|----------------|---------------|
| ☐ Riffle | | | | | . , |
| □ Run | | | | | |
| Pool | 35 | 6 | 30 | 0.5 | 0.8 |
| Flow | Present? XYes | □ No | Velocity (ft/sec): | 0.2 m/sec | 0 - 0 |

| Substrate*: (These va | lues should add up to | 100%.) | | |
|-----------------------|-----------------------|-----------|-----------|------------|
| % Cobble | 70% Gravel | SD % Sand | 10 % Silt | % Mud/Clay |

| 70 COBOLC | U% Graver | SO % Sand | 0 % Silt | % Mud/Clay | % Bedrock |
|----------------------|------------------------|---------------------------|----------------------|------------|-----------|
| Aquatic Vegetation*: | (Note amount of vegeta | tion or algal growth at t | he assessment site.) | | |
| N/A | | | | | |

Water Characteristics*: (Mark all that apply.)

| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | None | ☐ Other: | |
|------------------|----------|----------|----------------|-------|----------|--|
| Color: | □ Clear | ☐ Green | □ Gray | Milky | ☐ Other: | |
| Bottom Deposit: | □ Sludge | ☐ Solids | Fine sediments | | ☐ Other: | |
| Surface Deposit: | □ Oil | □ Scum | □ Foam | None | ☐ Other: | |
| | | | | | | |

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^{*}This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

| WBID | # | 287 | Site # | <u>776</u> |
|------|---|-----|--------|------------|
|------|---|-----|--------|------------|

Date: 06/26/2006

Data Sheet B - Site Characterization - 3 of 3

| Comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique local conditions, problems in measuring, site relocation). | |
|--|---|
| | |
| | |
| | |
| | - |
| | - |
| | - |
| | |

| WBID # | 287 | _ Site # | 176 |
|--------|-----|----------|-----|
|--------|-----|----------|-----|

Date: 06/26/2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C – Interviews
(Make additional copies as necessary for multiple in

| | w long have you | lived here? | | , in the second | | | | | |
|---|---|---------------------|---------------------|---|--|--|--|--|--|
| 2. Have you pe If so, ple | 2. Have you personally used this water body for recreation since 1975? ☐ Yes ☐ No If so, please check ALL that apply: | | | | | | | | |
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing | | | | | |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting | | | | | |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☐ None of the above | ☐ Other: | | | | | |
| 3. Have you obs | ☐ 1 – 5 time. ☐ Less than | 1 time per year – p | lease describe: | | | | | | |
| ☐ Swimming | ☐ Skin diving | □ SCUBA diving | ☐ Tubing | | | | | | |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | □ Wading | ☐ Water skiing | | | | | |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☐ None of the above | ☐ Rafting ☐ Other: | | | | | |
| [| How often have you observed it being used for recreation? More than 5 times per year 1 - 5 times per year Less than 1 time per year – please describe: | | | | | | | | |
| 4. Additional Co | omments: | | | | | | | | |
| Contact Informa Name: Address: Telephone #: | tion (if willing t | o provide): | | | | | | | |

WBID # <u>287</u> Site # <u>777</u>

Date: 06/26/2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization - 1 of 3

(A separate Data Sheet B must be completed for each site)

| | | | 1 | | |
|----------------------------|------------------------|----------|-------------------------------|------------------------------|-----------------------------|
| Latitude (ddd.dddd): | 40,19556 | | | Arrival Time: | |
| Longitude (ddd.dddd): | 95,03178 | | | | (n |
| Photo Ids: Upstream: | | Down | astream: | Other: | J |
| | 0202 | | 0204 | 0 ner: | .05 |
| | | | | | |
| Narrative Description | of Location: (De | scrib | e access point to stream, nea | arby roads, landmarks, etc.) | , · |
| at 365th 51 | reet bridg | 0.0 | MSSLVA | reg rouds, randmarks, etc., | , |
| | ritory | | J. Cost, C.J. | | |
| | | | | | |
| Surrounding Conditio | ns*: (Mark all that) | prom | ote or impede recreational u | ses. Attach photos of evide | ence or unusual |
| itelis of interest.) | T | <u> </u> | | | |
| ☐ City/county parks | ☐ Playgrounds | | MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | | National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☐ Fence | | Steep slopes | Other: Ag Filla | |
| Human Uses Observed | *• | | | J | |
| Swimming | | | | | |
| | ☐ Skin diving | | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | | ☐ Boating | □ Wading | ☐ Rafting |
| Describe: (include numb | Trapping | | Fishing | None of the above | ☐ Other: |
| Describe. (metade namo | er of individuals reci | reatin | g, frequency of use, photo-c | locumentation of evidence | of recreational uses, etc.) |
| | | | | | |
| | | | | | |
| | | | | | |
| Evidence of Human Us | e*: | | | | |
| Roads | ☐ Foot paths/prin | ts | ☐ Dock/platform | | |
| ☐ Rope swings | ☐ Camping Sites | | ☐ Fire pit/ring | ☐ Livestock Watering | □ RV / ATV Tracks |
| Other: ACL. VUV | · | ···· | La Fire pivring | ☐ NPDES Discharge | ☐ Fishing Tackle |
| 19. 10V | 1011- CITICA | <u> </u> | | | |
| Sources of Pollution: (e. | g., trash dumping, tir | es, dr | ainages, discharges, etc.) | | |
| Ag. run off | N (N | | 05 | | |
| I TO TO THE | CitiCy | J L | | | |
| \searrow | | | | | |

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WBID # <u>287</u> Site # 777

Date: 06/26 / 2006

Data Sheet B - Site Characterization - 2 of 3

| | Distance from access point (m) | Width (m) | Length (m) | Avg. Depth (m) | Max Depth (m |
|--|---|---|--|---|--------------|
| ☐ Riffle | | | | | |
| □ Run | | | | | |
| Pool | 25 | 5 | 30 | 0.5 | 0.6 |
| Flow | Present? Yes | □ No | Velocity (ft/sec): | 0.5 0.2 m/sec | |
| Downstream | n View Physical | Dimensions: | | | |
| | Distance from access point (m) | Width (m) | Length (m) | Avg. Depth (m) | Max Depth (m |
| □ Riffle | | | | | - |
| □ Run | | | | | |
| Pool | 35 | 5 | 25 | 0.2 | 7.3 |
| | | | 1 2 | 1 1/1 | () |
| Flow | Present? XYes | □ No | Velocity (ft/sec): | | 0.3 |
| | | | | 0.1 m/sec | |
| ostrate*: (T | hese values should ac | ld up to 100%.) | Velocity (ft/sec): | 0.1 m/sec | |
| ostrate*: (T | | ld up to 100%.) | Velocity (ft/sec): | | |
| ostrate*: (T | hese values should acobble 20% | Id up to 100%.) Gravel 60 | Velocity (ft/sec):) % Sand 15 % | 0.1 m/sec | |
| ostrate*: (T % Co uatic Vegeta | hese values should acobble 20% | Id up to 100%.) Gravel 60 | Velocity (ft/sec): | 0.1 m/sec | |
| ostrate*: (T % Co uatic Vegeta | hese values should acobble 20% | Id up to 100%.) Gravel 60 | Velocity (ft/sec):) % Sand 15 % | 0.1 m/sec | |
| ostrate*: (T % Co uatic Vegeta | hese values should acobble 20% | Id up to 100%.) Gravel 60 | Velocity (ft/sec):) % Sand 15 % | 0.1 m/sec | |
| ostrate*: (T % Co uatic Vegeta | hese values should acobble 20% | Id up to 100%.) Gravel 60 Int of vegetation or a | Velocity (ft/sec):) % Sand 15 % | 0.1 m/sec | |
| ostrate*: (T % Co uatic Vegeta | hese values should acobble 20% ation*: (Note amount) | Id up to 100%.) Gravel 60 Int of vegetation or a | Velocity (ft/sec): 9 % Sand 15 % Algal growth at the assessm | 0.1 m/sec | |
| ostrate*: (T % Co uatic Vegeta N ter Charact | hese values should acobble 20% ation*: (Note amount / | Id up to 100%.) Gravel (00) It of vegetation or a | Velocity (ft/sec): 9 % Sand 15 % algal growth at the assessm Chemical | 0. m second of the second | |
| ostrate*: (T % Co uatic Vegeta N ter Charact | hese values should acobble 20% ation*: (Note amount eristics*: (Mark al | Id up to 100%.) Gravel 60 It of vegetation or a lithat apply.) Musky | Velocity (ft/sec): 9 % Sand 15 % algal growth at the assessm Chemical Chemical Gray | 0.1 m/sec | |

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WBID # <u>787</u> Site # <u>777</u>

Date: <u>06/26/2006</u>

Data Sheet B - Site Characterization - 3 of 3

| comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated uniq conditions, problems in measuring, site relocation). | ue local |
|--|----------|
| | |
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| WBID #_ | 287 | _ Site # _ | 777 |
|---------|-----|------------|-----|
|---------|-----|------------|-----|

Date: 06/ 26 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C – Interviews
(Make additional copies as necessary for multiple intervie

| 1. Do you live: If so, how | in the area? | | sary for muniple inter | views) |
|-----------------------------|---|--|------------------------|-----------------|
| 2. Have you per If so, plea | rsonally used the | is water body for re | ecreation since 1975? | □ Yes □ No |
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☐ None of the above | ☐ Other: |
| 3. Have you obs | ☐ 1 – 5 times ☐ Less than ☐———————————————————————————————————— | 5 times per year s per year l time per year – pl | lease describe: | 975? □ Yes □ No |
| ii so, piea | Se check ALL ti | nat apply: | | |
| Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | □ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☐ None of the above | ☐ Other: |
| | ☐ More than ☐ 1 – 5 times ☐ Less than 1 | ved it being used f 5 times per year per year time per year – plo | | |
| 4. Additional Co | mments: | | | |
| Contact Informat Name: | tion (if willing to | o provide): | | |

Address:

Telephone #:

WBID # <u>287</u> Site # <u>778</u>

Date: 06/26/2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization - 1 of 3

(A separate Data Sheet B must be completed for each site)

| Latitude (ddd.dddd): | 40 10222 | ···· | | , 15° | |
|---|------------------------|-------------|--|-----------------------------|-----------------------------|
| Longitude (ddd.dddd): | 70-1715T 95-02001 | | | Arrival Time: | \sim |
| Photo Ids: Upstream: | | Down | nstream: | | <i>J</i> |
| - | 207 | DOWI | 0208 | Other: | |
| | | | ULU 0 | | |
| Narrative Description | of Location: (De | escrib | e access point to stream ne | arhy roads landmarks at | ``` |
| ~ 200 m | US from s | site | c access point to stream, ne c | h struct proka | O CUISCIM.) |
| | • | | . (42 | 31 P. 0g. | c crossing). |
| | | | | | |
| Surrounding Condition items of interest.) | ons*: (Mark all that | prom | ote or impede recreational u | ses. Attach photos of evide | ence or unusual |
| neitis of interest.) | | | / | | |
| ☐ City/county parks | ☐ Playgrounds | 1 | MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | | National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☐ Fence | | Steep slopes | ☐ Other: | |
| Human Uses Observed | 1 *: | | | | |
| ☐ Swimming | ☐ Skin diving | | ☐ SCUBA diving | ☐ Tubing | C Western state |
| ☐ Wind surfing | ☐ Kayaking | | ☐ Boating | □ Wading | ☐ Water skiing |
| ☐ Hunting | ☐ Trapping | | ☐ Fishing | None of the 1 | Rafting |
| Describe: (include numb | per of individuals rec | reatin | g, frequency of use, photo- | documentation of evidence | Of recreational years etc.) |
| | | | • | or evidence | of recreational uses, etc.) |
| | | | | | |
| | | | | | |
| Table Car | | ··· | | | |
| Evidence of Human Us | T | | | | |
| Roads | ☐ Foot paths/prin | ts | ☐ Dock/platform | ☐ Livestock Watering | □ RV / ATV Tracks |
| ☐ Rope swings | ☐ Camping Sites | | ☐ Fire pit/ring | ☐ NPDES Discharge | ☐ Fishing Tackle |
| ☐ Other: | | | | | I |
| Sommon of D. H. A. | | | | | |
| Sources of Pollution: (e. | g., trash dumping, tir | es, dr | rainages, discharges, etc.) | | |
| | | | | | |
| | | | | | |

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| | <u> 26 / 2006</u> Dai | a Sheet B - Site Ch | aracterization – 2 | of 3 | |
|--|--|--------------------------------------|--------------------------------|-------------------------------|---------------|
| tream Mor Upstream | phology: View Physical Dir | | _ | | |
| | Distance from access point (m) | Width (m) | Length (m) | Avg. Depth (m) | Max Depth (m |
| □ Riffle | | | | | |
| ☐ Run | | | | | |
| | | | | | |
| Pool | 220 | 5 | 20 | 0.25 | N4 |
| Pool Flow | Present? Yes | <u> </u> | ZO Velocity (ft/sec): | 0.25 0.01 m/sec | 0.4 |
| Flow | Present? Yes | □ No | | 0.25 0.01 m/sec | |
| Flow | | □ No | | | |
| Flow | Present? Yes am View Physical I Distance from | □ No Dimensions: | Velocity (ft/sec): | 0.01 m/sec | |
| Flow | Present? Yes am View Physical I Distance from | □ No Dimensions: | Velocity (ft/sec): | 0.01 m/sec | |
| Flow Downstrea Riffle | Present? Yes am View Physical I Distance from | □ No Dimensions: | Velocity (ft/sec): Length (m) | O.D m/seco | Max Depth (m) |
| Flow Downstrea Riffle Run | Present? Yes Am View Physical 1 Distance from access point (m) | □ No Dimensions: Width (m) | Velocity (ft/sec): | 0.0 m/sec Avg. Depth (m) | |
| Flow Downstres □ Riffle □ Run □ Pool □ Flow | Present? Yes Am View Physical I Distance from access point (m) | □ No Dimensions: Width (m) 5 □ No | Velocity (ft/sec): Length (m) | O.D m/seco | Max Depth (m) |

Water Characteristics*: (Mark all that apply.)

| | - | | | | |
|------------------|----------|----------|---------------------------------------|--------|----------|
| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | None | ☐ Other: |
| Color: | □ Clear | □ Green | ☐ Gray | Milky | □ Other: |
| Bottom Deposit: | □ Sludge | ☐ Solids | Fine sediments | | Other: |
| Surface Deposit: | □ Oil | □ Scum | Foam | □ None | ☐ Other: |
| | | | · · · · · · · · · · · · · · · · · · · | | |

^{*}This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

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| WBID | # | 28 | 7 | _ Site | # | 778 |
|------|---|----|---|--------|---|-----|
| | | | | | | |

Date: 06/26/2006

Telephone #:

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Interviews
(Make additional copies as necessary for mult

| 1. Do you live If so, how | in the area? | | sary for multiple inter | views) |
|------------------------------------|--|--|-------------------------|----------------|
| 2. Have you pe If so, ple | rsonally used the | is water body for re hat apply: | ecreation since 1975? | ☐ Yes ☐ No |
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☐ None of the above | Other: |
| 3. Have you obs | ☐ 1 – 5 times ☐ Less than ———————————————————————————————————— | 5 times per year s per year l time per year – p | lease describe: | |
| ☐ Swimming | se check ALL the Skin diving | | | |
| ☐ Wind surfing | ☐ Kayaking | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Hunting | ☐ Trapping | ☐ Boating ☐ Fishing | □ Wading | ☐ Rafting |
| | | La Pisining | ☐ None of the above | ☐ Other: |
| [| ☐ More than ☐ 1 – 5 times ☐ Less than 1 | ved it being used f 5 times per year per year time per year – ple | | |
| Contact Information Name: Address: | | o provide): | | |

WBID # <u>287</u> Site # <u>779</u>

Date: 06/26/2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization - 1 of 3

(A separate Data Sheet B must be completed for each site)

| | • | | | i for cac | i site) | |
|---|----------------------|--------|------------------------------|---------------------------------------|---------------------|-----------------------------|
| Latitude (ddd.dddd): 4 | 0.20243 | | | | Arrival Time: | |
| Longitude (ddd.dddd): | 95 03 125 | | | | 0945 Other: 0202 | 5 |
| Photo Ids: Upstream: | | Dowi | nstream: | | Other: 2200 |) |
| 020 | 00 | | 0201 | | 0202 | _ |
| | | | | | | |
| Narrative Description | of Location: (De | scrib | e access point to stream, ne | arby roads | , landmarks, etc.) | 1 |
| at Hwy A br | idge crossii | 79 | _ | | | |
| 1 | <i>J</i> | U | | | | |
| Commenced! Co. 1141 | | | | | | |
| Surrounding Condition items of interest.) | 18*: (Mark all that | prom | ote or impede recreational u | ises. Attac | h photos of evide | ence or unusual |
| ☐ City/county parks | ☐ Playgrounds | | MDC conservation lands | ☐ Urb | an areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | | National forests | □ Natı | ire trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☐ Fence | | Steep slopes | ☐ Othe | er: | , |
| Human Uses Observed | *• | | | · · · · · · · · · · · · · · · · · · · | | |
| | T | | | | | |
| Swimming | Skin diving | | ☐ SCUBA diving | ☐ Tub | ing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | | ☐ Boating | □ Wad | ling | ☐ Rafting |
| ☐ Hunting | Trapping | | | Non | e of the above | ☐ Other: |
| Beschoe. (metude numbe | er of marviduals rec | reatin | g, frequency of use, photo- | documenta | tion of evidence | of recreational uses, etc.) |
| Evidence of Human Use | *: | | | | | |
| Roads | ☐ Foot paths/prin | ts | ☐ Dock/platform | ☐ Lives | tock Watering | □ RV / ATV Tracks |
| ☐ Rope swings | ☐ Camping Sites | | ☐ Fire pit/ring | | ES Discharge | ☐ Fishing Tackle |
| ☐ Other: | | | | | | |
| Sources of Pollution: (e.g | trash dumning tir | ec di | rainages discharges (1) | | | |
| Run off ditch | | | amages, discharges, etc.) | | | |

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| <u>- •</u> |
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| |

Data Sheet B - Site Characterization - 2 of 3

Upstream View Physical Dimensions:

Distance from access point (m)

Width (m)

Length (m)

Avg. Depth (m)

Max Depth (m)

Riffle

Riffle

Riffle

Riffle

Rool

Rool

Prool

Prool

Velocity (ft/sec):

Downstream View Physical Dimensions:

| | Distance from access point (m) | Width (m) | Length (m) | Avg. Depth (m) | Max Depth (m) |
|----------|--------------------------------|-----------|--------------------|----------------|---------------|
| □ Riffle | | | | | |
| □ Run | | | | | |
| ⊠ Pool | 45 | 8 | 40 | 0.45 | 0.7 |
| Flow | Present? | No No | Velocity (ft/sec): | | |

| ounstrate": | (These values | shou | ld add up to | 100%.) | | | | | |
|-------------|---------------|------|--------------|--------|--------|----|--------|---------------|-----------|
| % | Cobble | 5 | % Gravel | 75 | % Sand | 10 | % Silt | /D % Mud/Clay | 9/ Padras |

Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

N/A

Water Characteristics*: (Mark all that apply.)

| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | VPI N | | |
|------------------|----------|----------|----------------|----------------|----------|---------------------------------------|
| C-1- | | | 7.6 | None | ☐ Other: | |
| Color: | □ Clear | | Gray | ∠ Milky | ☐ Other: | |
| Bottom Deposit: | □ Sludge | ☐ Solids | Fine sediments | □ None | ☐ Other: | |
| Surface Deposit: | □ Oil | □ Scum | √Foam | □ None | ☐ Other: | · · · · · · · · · · · · · · · · · · · |
| | | | | | _ | |

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^{*}This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

WBID # <u>287</u> Site # <u>779</u>

Date: 06/26/2006

Data Sheet B - Site Characterization - 3 of 3

| Comments: Please describe any departures fro conditions, problems in measuring, site relocation | om protocol and the reasons for departure (e.g., unanticipated unique local n). |
|--|---|
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WBID # <u>287</u> Site # <u>779</u>

Date: 06 / 26 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C – Interviews

(Make additional copies as necessary for multiple interviews)

| 2. Have you pe If so, ple | ersonally used the | is water body for rethat apply: | ecreation since 1975? | □ Yes □ No | |
|------------------------------|---|--|------------------------|----------------|--|
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing | |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | □ Wading | | |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☐ None of the above | ☐ Other: | |
| 3. Have you obs | | ing this water body | for recreation since 1 | | |
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing | |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | □ Wading | ☐ Rafting | |
| ☐ Hunting | ☐ Trapping | ☐ Fishing ☐ None of the above | | ☐ Other: | |
| [[| ☐ More than ☐ 1 – 5 times ☐ Less than 1 | rved it being used f 5 times per year per year time per year – pl | | | |
| 4. Additional Co | | | | | |

Telephone #:

WBID # <u>287</u> Site # <u>780</u>

Date: 06 / 26 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization - 1 of 3

(A separate Data Sheet B must be completed for each site)

| | | 0110 | or B must be completed | 1 ioi eaci | i site) | |
|--|------------------------|--|---------------------------------------|--------------|---------------------------------------|-----------------------------|
| Latitude (ddd.dddd): L | 10.24241 | | | | Arrival Time: | |
| Longitude (ddd.dddd): | 95.02266 | | 0919 | 3 | | |
| Photo Ids: Upstream: | | Down | stream: | L | Other: NO. | o la Cr |
| C | 194 | | 0195 | | Other: 0194 0197 | 0199 |
| <u> </u> | | | | | 0198 | |
| Narrative Description | of Location: (De | scrib | e access point to stream, ne | arby roads | , landmarks, etc.) | |
| at 330th st | rett bridge | Cr | ossing- | | | |
| | <i>J</i> | | \mathcal{O} | of. | | |
| | | | | | 71 | |
| Surrounding Conditio items of interest.) | ns*: (Mark all that | prom | ote or impede recreational u | ises. Attacl | h photos of evide | nce or unusual |
| ☐ City/county parks | D Playarounda | | MDC | T | · | |
| | ☐ Playgrounds | | MDC conservation lands | Urb: | an areas | ☐ Campgrounds |
| ☐ Boating accesses | ☐ State parks | | National forests | ☐ Nate | re trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☐ Fence | | Steep slopes | ☐ Other: | | |
| Human Uses Observed | !*: | | | | | |
| ☐ Swimming | ☐ Skin diving | | ☐ SCUBA diving | | | |
| ☐ Wind surfing | ☐ Kayaking | | ☐ Boating | ☐ Tub | | ☐ Water skiing |
| ☐ Hunting | ☐ Trapping | | | □ Wading | | Rafting |
| | er of individuals rec | reatin | ☐ Fishing g, frequency of use, photo- | documento | e of the above | Other: |
| | | | e, and all of use, photo- | documenta | non of evidence | of recreational uses, etc.) |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Evidence of Human Us | e*: | | | | | |
| ☐ Roads | ☐ Foot paths/prin | ts | □ Dock/platform | ☐ Lives | tock Watering | ☐ RV / ATV Tracks |
| ☐ Rope swings | ☐ Camping Sites | | ☐ Fire pit/ring | | ES Discharge | ☐ Fishing Tackle |
| Other: Trash (| 0196) (0190 | <u> </u> | | 1 - 112 | Discharge | L Fishing Tackle |
| | 0 147 (0) 1 | '/ - | | | · · · · · · · · · · · · · · · · · · · | |
| Sources of Pollution: (e. | g., trash dumping, tir | es, dr | rainages, discharges, etc.) | | | |
| | | | n area adjec | ent tr | bridge | (20 PP) 1191 |
| 1019 | 9) | | Trottac acyce | | or age | 0198 |
| (017 | 1/ | | | | ď | |
| | | | | | | |

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| Stream M | orpholos | ov: | Data She |
|-----------|----------|--------|----------|
| Date: _O(| 1261 | 2006 | _ |
| WBID#_ | 287 | Site # | 780 |
| | | | |

Data Sheet B - Site Characterization - 2 of 3

Present? X Yes Velocity (ft/sec): □ No **Downstream View Physical Dimensions:** Distance from Width (m) Length (m) Avg. Depth (m) access point (m) Max Depth (m) ☐ Riffle ☐ Run ⊠ Pool 50 **Flow** Yes Present? Velocity (ft/sec): □ No not measurable Substrate*: (These values should add up to 100%.) % Cobble 30 % Gravel % Sand 15 % Silt % Mud/Clay % Bedrock Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)

| Water Charac | teristics*: (Mark al | l that apply.) | |
|--------------|----------------------|----------------|--|
| Odor: | C | | |

| 0.4 | | | | | | |
|------------------|----------|----------|----------------|--------|----------|--|
| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | None | ☐ Other: | |
| Color: | □ Clear | ☐ Green | ☐ Gray | Milky | ☐ Other: | |
| Bottom Deposit: | □ Sludge | □ Solids | Fine sediments | | ☐ Other: | |
| Surface Deposit: | □ Oil | □ Scum | € Foam | ☐ None | ☐ Other: | |
| | | | | | | |

Ood Cr Hy 6/26

^{*}This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

WBID # <u>287</u> Site # <u>780</u>

Date: <u>06/26 / 2006</u>

Data Sheet B - Site Characterization - 3 of 3

| Comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique local conditions, problems in measuring, site relocation). | |
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Date: 06 / 26 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Interviews

(Make additional copies as necessary for multiple interviews)

| | in the area? | | | · iows) | | | |
|---|---------------------------------|---------------------------------|-----------------------|-----------------|--|--|--|
| 2. Have you pe | rsonally used thase check ALL t | is water body for rethat apply: | ecreation since 1975? | □ Yes □ No | | | |
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing | | | |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | □ Wading | ☐ Rafting | | | |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☐ None of the above | ☐ Other: | | | |
| ☐ More than 5 times per year ☐ 1 - 5 times per year ☐ Less than 1 time per year - please describe: ☐ A substitute of the substitute of th | | | | | | | |
| If so, plea | ise check ALL t | hat apply: | | 975? □ Yes □ No | | | |
| Swimming | Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing | | | |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting | | | |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☐ None of the above | ☐ Other: | | | |
| How often have you observed it being used for recreation? ☐ More than 5 times per year ☐ 1 - 5 times per year ☐ Less than 1 time per year - please describe: | | | | | | | |
| 4. Additional Co | omments: | | | | | | |
| Contact Informa Name: | tion (if willing t | o provide): | | | | | |

Address:

Telephone #:

WBID # <u>287</u> Site # <u>781</u>

Date: <u>0b / 26 / 2006</u>

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization - 1 of 3

| | (| A separate Data | Shee | et B must be completed | for each site) | |
|----------|--------------------------------------|------------------------|----------|-------------------------------|------------------------------|-----------------------------|
| ŊΣ | Latitude (ddd.dddd): 4(| 7.26790 | | | Arrival Time: | |
| 1. | Longitude (ddd.dddd): | 95.01263 | | | 08 | 39 |
| | Photo Ids: Upstream: | | Down | stream: LG | | 5 0193 |
| | 249 | 16 6/26 I | | stream: 6 126 016 | 11 018 | 5 019 3 |
| | <u></u> | | | | |) |
| Na | rrative Description | of Location: (De | scribe | e access point to stream, nea | arby roads, landmarks, etc.) | |
| | a at 315th | street bri | age | crossing (di | rt road). | |
| | | | <i>J</i> | IJ | | |
| C | L. C. III | | | | | |
| iten | rrounding Condition ns of interest.) | 18*: (Mark all that p | oromo | ote or impede recreational u | ses. Attach photos of evide | nce or unusual |
| | ☐ City/county parks | ☐ Playgrounds | | MDC conservation lands | ☐ Urban areas | ☐ Campgrounds |
| ļ | ☐ Boating accesses | ☐ State parks | | National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ĺ | ☐ No trespass sign | ☐ Fence | | Steep slopes | ☐ Other: | |
| Hu | man Uses Observed | *• | | | | |
| | ☐ Swimming | ☐ Skin diving | | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| | ☐ Wind surfing | ☐ Kayaking | | ☐ Boating | ☐ Wading | ☐ Rafting |
| | ☐ Hunting | ☐ Trapping | | ☐ Fishing | None of the above | [] Oth |
| | Describe: (include number | er of individuals reco | reatin | g, frequency of use, photo- | documentation of evidence | of recreational uses, etc.) |
| l | | | | | | , |
| | | | | | | |
| | | | | | | |
| Evi | dence of Human Use | *• | | | | |
| | Roads | | | | | |
| | ☐ Rope swings | ☐ Foot paths/prin | ts | ☐ Dock/platform | ☐ Livestock Watering | □ RV / ATV Tracks |
| <u> </u> | <u> </u> | ☐ Camping Sites | | Fire pit/ring | NPDES Discharge | ☐ Fishing Tackle |
| Ł | XOther: TVÜSh (| along stru | ÂΥΥ | bank (LB | | 13) |
| Sou | rces of Pollution: (e.g | J trash dumning tir | ec dr | ainagas disabaras (44.) | cq | |
| | K. T. () | ,, uasi damping, th | es, ui | amages, discharges, etc.) | ĵ, | |
| L | - Ivasa aur | mping-L | DH? | 5) Ag. ditc | h into struam | (0190) |
| | Trash dur | | 210 | 13 | | |
| | | ` | , | ş • | | |
| | Ocad a. | Hi 6 | 124 | 9 | | |

| | Dat | a Sheet B - Site Cha | racterization – 2 o | f 3 | |
|----------------------------------|--------------------------------------|----------------------|---------------------|-------------------|---------------|
| eam Mor _l Upstream | phology: View Physical Din | nensions: | | | |
| • | Distance from access point (m) | Width (m) | Length (m) | Avg. Depth (m) | Max Depth (m) |
| ☐ Riffle | | | | | |
| □ Run | | | | | |
| Pool | 50 | 2 | 50 | 0.3 | 0.48 |
| Flow | Present? X Yes | □ No | Velocity (ft/see): | 0.3 0.01 m/sec | 0.18 |
| ☐ Riffle | access point (m) | Width (m) | Length (m) | Avg. Depth (m) | Max Depth (m) |
| □ Riffle □ Run | | | | | |
| | 50 | 4.5 | 40 | 0.4 | 1/5 |
| POOI POOI | Present? | No | Velocity (ft/sec): | 0. 1 | 0.65 |
| Pool Flow | | 1 | | | |
| Flow strate*: (| These values should ad | | | | % Bedro |
| Flow strate*: (| These values should ad Cobble 20 % (| | and 75 % Si | lt 5 % Mud/Clay | 70 Deuto |
| Flow strate*: (| Cobble 20 % (| | | | 78 Betto |

| Odor: | ☐ Sewage | ☐ Musky | ☐ Chemical | None None | ☐ Other: | |
|------------------|----------|----------|----------------|-----------|----------|-------------|
| Color: | □ Clear | □ Green | ☐ Gray | Milky | ☐ Other: | |
| Bottom Deposit: | □ Sludge | □ Solids | Fine sediments | □ None | ☐ Other: | |
| Surface Deposit: | □ Oil | Scum | Foam | □ None | ☐ Other: | |

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^{*}This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

| WBID | # | 287 | _ Site # _ | 781 |
|------|---|-----|------------|-----|
| | _ | | | |

Date: 06/25/2006

Data Sheet B - Site Characterization - 3 of 3

| Comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique local conditions, problems in measuring, site relocation). | |
|--|---|
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| WBID# <u>187</u> | Site # _ | 781 |
|------------------|----------|-----|
|------------------|----------|-----|

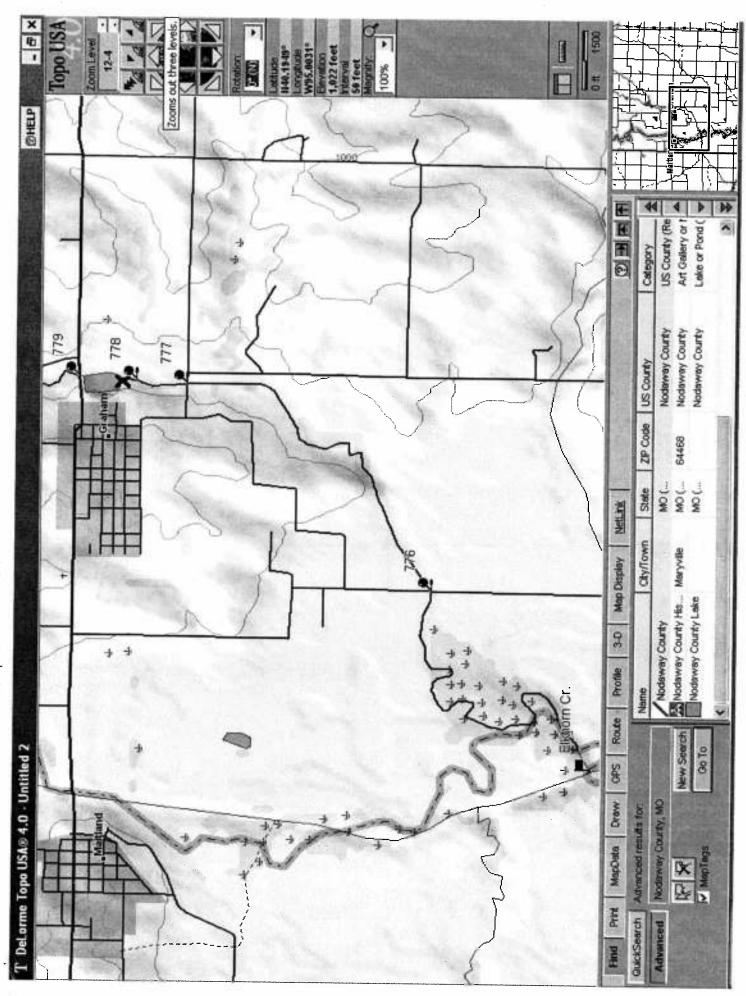
Date: 06/26 / 2006

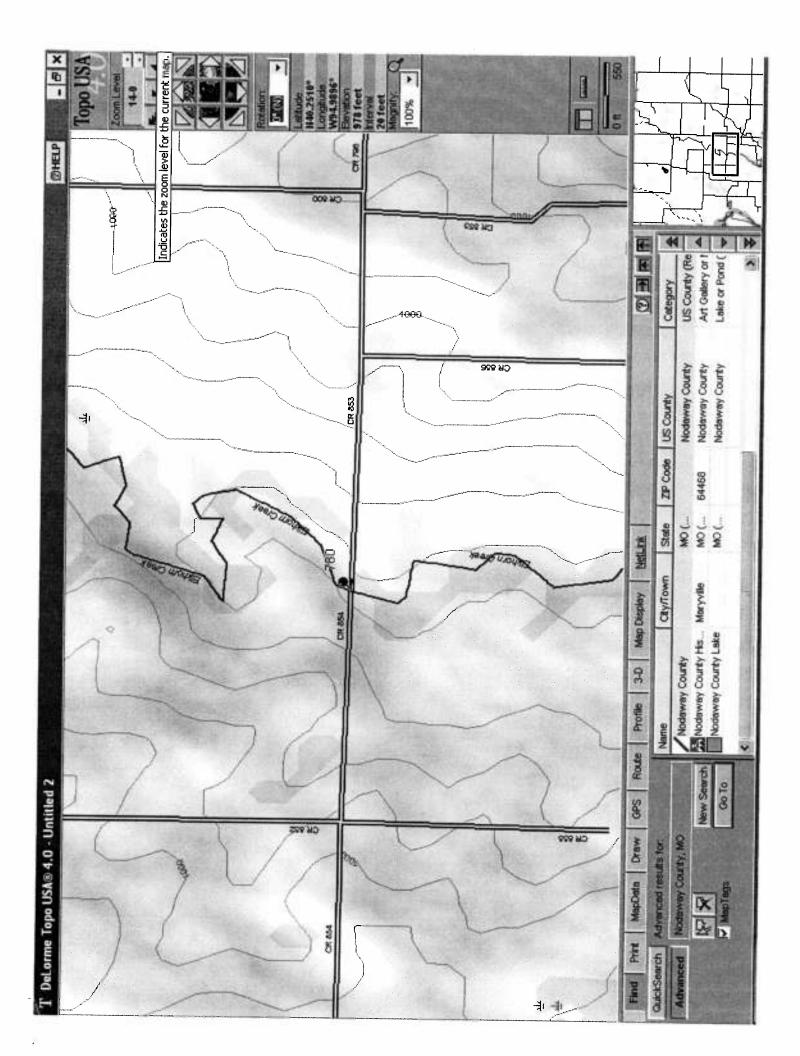
Field Data Sheets for Recreational Use Stream Surveys

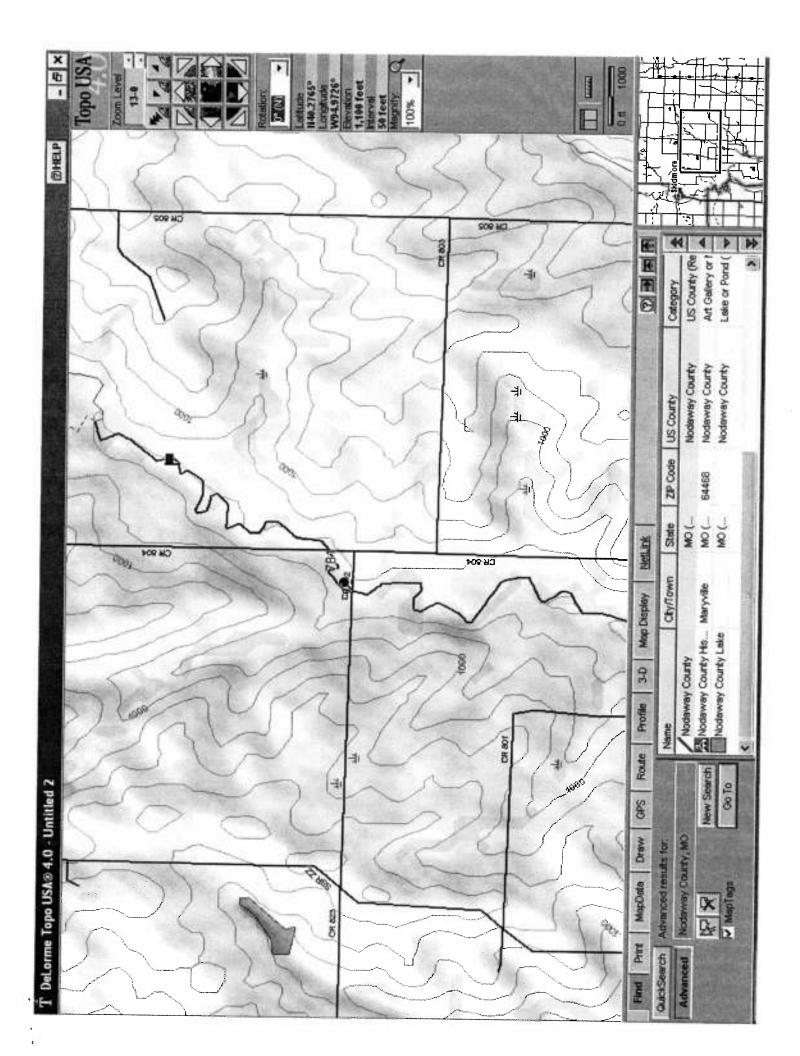
Data Sheet C - Interviews

(Make additional copies as necessary for multiple interviews)

| 2. Have you per If so, ple | rsonally used th | is water body for rethat apply: | ecreation since 1975? | □ Yes □ No |
|-------------------------------------|--|--|---|-----------------------------------|
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Wind surfing | ☐ Kayaking | ☐ Boating | ☐ Wading | ☐ Rafting |
| ☐ Hunting | ☐ Trapping | ☐ Fishing | ☐ None of the above | ☐ Other: |
| 3. Have you obs | | ing this water body | lease describe: for recreation since 1 | |
| | | uppiy, | | |
| ☐ Swimming | ☐ Skin diving | ☐ SCUBA diving | ☐ Tubing | ☐ Water skiing |
| ☐ Swimming ☐ Wind surfing | | | ☐ Tubing ☐ Wading | ☐ Water skiing ☐ Rafting |
| | ☐ Skin diving | ☐ SCUBA diving | | ☐ Water skiing ☐ Rafting ☐ Other: |
| ☐ Wind surfing ☐ Hunting How often | ☐ Skin diving ☐ Kayaking ☐ Trapping ☐ have you obser ☐ More than ☐ 1 - 5 times | ☐ SCUBA diving ☐ Boating ☐ Fishing rved it being used for times per year | ☐ Wading ☐ None of the above or recreation? | ☐ Rafting |
| ☐ Wind surfing ☐ Hunting How often | ☐ Skin diving ☐ Kayaking ☐ Trapping ☐ have you obset ☐ More than ☐ 1 - 5 times ☐ Less than 1 | ☐ SCUBA diving ☐ Boating ☐ Fishing rved it being used for times per year per year | ☐ Wading ☐ None of the above or recreation? | ☐ Rafting |
| ☐ Wind surfing ☐ Hunting How often | ☐ Skin diving ☐ Kayaking ☐ Trapping ☐ have you obset ☐ More than ☐ 1 - 5 times ☐ Less than 1 | ☐ SCUBA diving ☐ Boating ☐ Fishing rved it being used for times per year per year | ☐ Wading ☐ None of the above or recreation? | ☐ Rafting |









Site# 776 Photo ID# 0209, Upstream



Site# 776 Photo ID# 0211, Trash



Site# 776 Photo ID# 0210, Downstream



Site# 776 Photo ID# 0212, Agriculture



Site# 777 Photo ID# 0203, Upstream



Site# 777 Photo ID# 0205, Drainage



Site# 777 Photo ID# 0204, Downstream



Site# 778 Photo ID# 0207, Upstream



Site# 778 Photo ID# 0208, Downstream



Site# 780 Photo ID# 0195, Downstream



Site# 780 Photo ID# 0194, Upstream



Site# 780 Photo ID# 196, description



Site# 780 Photo ID# 0197, Clearing 1



Site# 780 Photo ID# 0199, Trash



Site# 780 Photo ID# 0198, Clearing 2



Site# 781 Photo ID# 0192, Upstream



Site# 781 Photo ID# 0191, Downstream



Site# 781 Photo ID# 0193, Downstream



Site# 781 Photo ID# 0190, Drainage ditch